

Appendix G

'***** RINGLIGHT POWER SUPPLY FOR BOTH AC AND DC ***** RINGBAT.BAS
'BASED ON 16 MHZ 16F877, FOR REMOTE, LOCAL AND DMX INPUT

REDACTED

' PORTA.0 ~ ANALOG INTERNAL POT
' PORTA.1 ~ VOLTAGE AT BATTERY
' PORTA.2 ~ ANALOG LOAD CHANNEL #
' PORTA.3 ~ ANALOG LOAD CHANNEL #
' PORTA.4 ~ DIGITAL IN ON/OFF SWITCH HI=ON
' PORTA.5 ~ ANALOG LOAD CHANNEL #

' PORTB.0 ~ SERIAL I/O (WATCHDOG)
' PORTB.1 ~ LED INDICATING LOCAL CONTROL
' PORTB.2 ~ N/C
' PORTB.3 ~ OUTPUT ENABLE CHANNEL #
' PORTB.4 ~ OUTPUT ENABLE CHANNEL #
' PORTB.5 ~ OUTPUT ENABLE CHANNEL #
' PORTB.6 ~ PROGRAM
' PORTB.7 ~ PROGRAM

' PORTC.0 ~ LED INDICATING REMOTE CONTROL
' PORTC.1 ~ PNP GATE CONTROL
' PORTC.2 ~ NPN GATE CONTROL
' PORTC.3 ~ LED INDICATING DMX CONTROL
' PORTC.4 ~ SCAN IN (DIODE)
' PORTC.5 ~ SCAN IN (DIODE)
' PORTC.6 ~ SCAN OUT TOGGLE SWITCHES
' PORTC.7 ~ DMX IN

' PORTD.0 ~ RTC RESET
' PORTD.1 ~ IC2
' PORTD.2 ~ IC2
' PORTD.3 ~ SCAN IN (DIODE)
' PORTD.4 ~ SCAN IN (4TH BIT NO DIODE)
' PORTD.5 ~ SCAN OUT DMX ADDRESS
' PORTD.6 ~ SCAN OUT REMOTE
' PORTD.7 ~ NC

' PORTE.0 ~ VOLTAGE AT LED+
' PORTE.1 ~ EXTERNAL POT
' PORTE.2 ~ TRIM POT

ENVIRONMENT

DEFINE CHAR_PACING 1000

VARIABLES

| | | | |
|-------|-----|------|-------|
| N | VAR | BYTE | BANK0 |
| X | VAR | BYTE | |
| Y | VAR | BYTE | |
| Z | VAR | BYTE | |
| | | | |
| X2 | VAR | WORD | BANK0 |
| Y2 | VAR | WORD | |
| | | | |
| MISCF | VAR | BYTE | BANK0 |
| | | | |
| LCNT | VAR | BYTE | |